



WATER RESOURCES RESEARCH GRANT PROPOSAL

Project ID: 2003AZ12B

Title: Attenuation of Estrogenic Activity in Reclaimed Water and Stormwater During Impoundment in Natural Systems

Project Type: Research

Focus Categories: Water Quality, Methods, Toxic Substances

Keywords: endocrine disrupting compounds, hormones, toxic substances

Start Date: 03/01/2003

End Date: 02/29/2004

Federal Funds: \$12214.00

Matching Funds: \$26163.00

Congressional District: 5

Principal Investigators: Karpiscak, Martin Milan; Quanrud, David Matson (University of Arizona); Lansey, Kevin; Ela, Wendel; Gerba, Charles; Arnold, Robert

Abstract: Proposed work will examine the efficacy of constructed wetlands as a polishing technique for removal of estrogenic activity in wastewater effluent and stormwater runoff. The project will provide the following data, information, etc.

- (i) Site-specific data relevant to the fate of human estrogen and estrogen mimics during effluent polishing operations at the Sweetwater wetlands and Kino wetlands
- (ii) Data on fate of estrogenic activity as function of wetland detention time
- (iii) Information leading to consensus regarding use-dependent treatment requirements for water reuse applications.
- (iv) Site-specific data on fate of estrogenic activity in stormwater during wetland treatment at the Kino wetlands.

Results will provide baseline information towards understanding the fate of estrogenic activity during free-water-surface wetland treatment. Project results will provide utilities and government agencies with

a basis for rational decisions relative to the need for and design of follow-on investigations in this area of inquiry. It is emphasized that proposed work represents only a first step toward understanding the fate of EDCs during wetland treatment.

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